

SEQUENCE LISTING

<110> Watts, Colin

University of Dundee

<120> Enzyme Inhibition

<130> DUNW/P20631PC

<140> PCT/GB99/00963

<141> 1999-03-26

<150> GB 9806442.1

<151> 1998-03-26

<150> US 60/086966

<151> 1998-05-28

<160> 32

<170> PatentIn Ver. 2.0

<210> 1

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide

sequence which may be comprised in a competitive
inhibitor of AEP

<400> 1

Ala Glu Asn Lys

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<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide

sequence which may be comprised in a competitive
inhibitor of AEP

<400> 2

Lys Asn Asn Glu

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<210> 3

<211> 295

<212> PRT

<213> Homo sapiens

<400> 3

Met His Arg Arg Arg Ser Arg Ser Cys Arg Glu Asp Gln Pro Val Met

1

5

10

15

Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met Leu

20

25

30

Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala Leu

35

40

45

Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln Ala

50

55

60

Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gly Arg Leu Asp Lys Leu

65

70

75

80

Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu

85

90

95

Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu

100

105

110

Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln

115

120

125

Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu

130

135

140

Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser

145 150 155 160

Phe Pro Glu Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp

165 170 175

Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met

180 185 190

Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Gln Pro Pro Lys Val

195 200 205

Leu Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val His Pro

210 215 220

Gly Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu Pro Leu

225 230 235 240

Gln Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro Asn Gly

245 250 255

Thr Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys Ser Glu

260 265 270

Ser Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln

275 280 285

Asp Leu Gly Pro Val Pro Met

290 295

<210> 4

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Sequence

preceding tetanus toxin fragment

<400> 4

Met Gly His Gly His His His His His His His His Ser Ser

1

5

10

15

Gly His Ile Glu Gly Arg His Ile

20

<210> 5

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<400> 5

cgctacactc cgaacgcggc gatcgattct ttcgtt

<210> 6
<211> 24
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

<400> 6
agcggataac aatttcacac agga

24

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<223> Description of Artificial Sequence:primer

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gtaaaacgac ggccagt

17

<210> 8
<211> 24
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<223> Description of Artificial Sequence:synthetic
transferrin peptide

<400> 8

Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn

1 5 10 15

Phe Cys Leu Phe Arg Lys Lys Lys

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<210> 9

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<223> Description of Artificial Sequence:cleavage
fragment from synthetic transferrin peptide

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Gln Gln Gln His Leu Phe Gly Ser Asn

1 5

<210> 10

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<223> Description of Artificial Sequence:cleavage

fragment from synthetic transferrin peptide

<400> 10

Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg Lys Lys Lys

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5

10

15

<210> 11

<211> 8

<212> PRT

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<223> Description of Artificial Sequence:cleavage

fragment from synthetic transferrin peptide

<400> 11

Phe Cys Leu Phe Arg Lys Lys Lys

1

5

<210> 12

<211> 21

<212> PRT

<213> Homo sapiens

<400> 12

Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn

1

5

10

15

Phe Cys Leu Phe Arg

20

<210> 13

<211> 16

<212> PRT

<213> Homo sapiens

<400> 13

Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn

1

5

10

15

<210> 14

<211> 5

<212> PRT

<213> Homo sapiens

<400> 14

Phe Cys Leu Phe Arg

1

5

<210> 15

<211> 12

<212> PRT

<213> Homo sapiens

<400> 15

Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg

1

5

10

<210> 16

<211> 9

<212> PRT

<213> Homo sapiens

<400> 16

Gln Gln Gln His Leu Phe Gly Ser Asn

1

5

<210> 17

<211> 210

<212> PRT

<213> Homo sapiens

<400> 17

Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met

1 5 10 15

Leu Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala

20 25 30

Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln

35 40 45

Ala Thr Thr Ala Tyr Phe Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr

50 55 60

Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro

65 70 75 80

Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu

85 90 95

Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Gln Asn Ala Thr

100 105 110

Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu Gln Asn

115 120 125

Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe Pro Glu

130 135 140

Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp Lys Val

145 150 155 160

Phe Glu Met His His Trp Leu Leu Phe Glu Met Ser Arg His Ser Leu

165

170

175

Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Glu Ser Leu Glu Leu Glu

180

185

190

Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp Leu Gly Pro Val

195

200

205

Pro Met

210

<210> 18

<211> 10

<212> PRT

<213> Clostridium tetani

<400> 18

Arg His Ile Asp Asn Glu Glu Asp Ile Asp

1

5

10

<210> 19

<211> 10

<212> PRT

<213> Clostridium tetani

<400> 19

Tyr Thr Pro Asn Asn Glu Ile Asp Ser Phe

1

5

10

<210> 20

<211> 10

<212> PRT

<213> Clostridium tetani

<400> 20

Gly Asn Ala Phe Asn Asn Leu Asp Arg Ile

1

5

10

<210> 21

<211> 10

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism:commercial

ribonuclease

<400> 21

Asn Gly Gln Thr Asn Cys Tyr Gln Ser Tyr

1

5

10

<210> 22

<211> 10

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism:commercial

ribonuclease

<400> 22

Val Ala Cys Lys Asn Gly Gln Thr Asn Cys

1

5

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<210> 23

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 23

Gly Thr Ser Val Asn Val His Ser Ser Leu

1

5

10

<210> 24

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 24

Gly Asn Gly Met Asn Ala Trp Val Ala Trp

1 5 10

<210> 25

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 25

His Gly Leu Asp Asn Tyr Arg Gly Tyr Ser

1 5 10

<210> 26

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 26

Ile Leu Gln Ile Asn Ser Arg Trp Trp Cys

1 5 10

<210> 27

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 27

Val Ser Asp Gly Asn Gly Met Asn Ala Trp

1 5 10

<210> 28

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 28

Arg Trp Trp Cys Asn Asp Gly Arg Thr Pro

1 5 10

<210> 29

<211> 10

<212> PRT

<213> Phasianidae gen. sp.

<400> 29

Val Ala Trp Arg Asn Arg Cys Lys Gly Thr

1 5 10

<210> 30

<211> 10

<212> PRT

<213> Homo sapiens

<400> 30

Leu Phe Gly Ser Asn Val Thr Asp Cys Ser

1

5

10

<210> 31

<211> 10

<212> PRT

<213> Homo sapiens

<400> 31

Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg

1

5

10

<210> 32

<211> 15

<212> PRT

<213> Homo sapiens

<400> 32

Lys Gly Ile Gly Ser Gly Lys Val Leu Lys Ser Gly Pro Gln Cys

1

5

10

15